WHAT IS CLAIMED IS:

1. A channel plate having a porous element, wherein the porous element includes an aluminum compound.

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2. A channel plate, comprising: a substrate; a first electrode placed on the top face of the substrate: and a second electrode placed on the bottom face of the substrate, wherein:

said substrate is a porous element having a plurality of pores extending therethrough;

wherein the porous element is formed with a compound including aluminum and the porous element has an electron multiplier on a wall surface of the pore.

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3. The channel plate according to claim 2, wherein said electron multiplier emits secondary electrons due to collision of the electrons with said electron multiplier.

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4. The channel plate according to claim 2, wherein said electron multiplier has oxide grains of which secondary electron emission coefficient is larger than one.

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5. The channel plate according to claim 2. wherein said porous element has aluminum oxide as its 5

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main ingredient.

- 6. The channel plate according to claim 2, wherein said electron multiplier is formed by coating the wall surface of the pore of said porous element.
 - An image intensifier having the channel plate according to claim 2.
 - A photomultiplier having the channel plate according to claim 2.
 - 9. A method for manufacturing a channel plate comprising the steps of: anodizing a substrate of aluminum or a substrate of which main ingredient is aluminum, to form a porous element having a plurality of pores extending through the substrate;

forming electron multipliers on wall surfaces of the pores; and

- forming electrodes on the top and bottom faces of the porous element respectively.
 - 10. The method for manufacturing a channel plate according to claim 9, wherein said step of forming the electron multipliers is a step of coating the wall surfaces of the pores of said porous element with a coating layer including a material of which secondary

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electron emission coefficient is larger than that of the material forming said porous element.

- 11. The method for manufacturing a channel plate according to claim 10, wherein said coating layer comprises a material of which secondary electron emission coefficient is larger than 1.
 - 12. The method for manufacturing a channel plate according to claim 11, wherein said coating layer includes oxide grains.
 - 13. The method for manufacturing a channel plate according to claim 10, wherein said coating layer includes oxide grains.
 - 14. The method for manufacturing a channel plate according to claim 9, wherein said aluminum or the substrate of which main ingredient is aluminum is an aluminum film disposed on the electrode to be anodized.

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